Declassified in Part - Sanitized Copy Approved for Release 2013/02/26: CIA-RDP80-00926A006300040013-6 U.S. Officials Only CONFIDENTIAL SECURITY INFORMATION CENTRAL INTELLIGENCE AGENCY 50X1-HU INFORMATION REPORT COUNTRY USSR SUBJECT Selection and Training of University Students in Fields of Metallurgy and Chemistry NO. OF PAGES NO. OF ENCLS. 794. OF THE U.S. CODE. AS AMENDED. ITS TRANSMISSION OF REVE SUPP. TO THIS IS UNEVALUATED INFORMATION REPORT NO. 50X1-HUM 2. The universities in the USSR have entrance examinations which cover gymnasium level work, and in addition have one section devoted to political queries. A screening board consisting of Communist Party faculty members examines each candidate also for political orientation primarily, and secondarily for other qualities such as aptitude, character, and the other characteristics of common concern to universities the world over. Scholastic ability is secondary to political reliability. A Komsomol member has a better chance of acceptance than a non-member, but a Komsomol member with a bourgeois background might be discriminated against in favor of a candidate with a peasant background. The economic status of a candidate has little or no bearing. Many scholarships of varying size are available for political reliables, and occasionally for pure scholars. A student has a relatively free hand in choosing a university. 3. engineering schools probably deemphasize the political written examination while still having a rigid screening board. This presumption is based on the fact that technical personnel traditionally are politically disinterested and are at a premium. U.S. Officials Only CONFIDENTIAL SECURITY INFORMATION DISTRIBUTION - STATE ARMY NAVY AIR This report is for the use within the USA of the Intelligence components of the Departments or Agencies indicated above. It is not to be transmitted overseas without the concurrence of the originating office through the Assistant Director of the Office of Collection and Dissemination, CIA.

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Availability of textbooks is good. There is an adequate number and cost is low. As an example a bound textbook on metallurgy, printed in 1938 in Moscow, priced at 2 rubles, 75 kopers. The most expensive 50X1-HUM Dtextbooks seldom run over 10 rubles (1944). Most editions are limited, and new editions are brought out regularly. Quality of texts as regards paper and binding is only fair. Durability under constant use is limited. Illustrations are comparable in quality and quantity to other foreign texts. Sources of information are usually translations of the best foreign books, with actual source unmentioned. Choices for translation are very good. In fields of chemistry and physics there are some original works due mainly to the immense effort spent in those fields on military research. Original Russian texts are accurate but superficial ____Translations of foreign sources are filled with translation error illustrations are well reproduced. 50X1-HUM

Classes are crowded due to a shortage of competent teachers, and the emphasis plant on technical training with the resulting increase in enrollment. Hours of instruction are longer than in comparable US institutions, due to the usual intense European university schedule and the obligatory Soviet political lectures and study periods. Mechanical or visual training aids in general engineering, physics or chamistry laboratories are scarce. Professors or laboratory instructors have more demonstration assistants, however, than their US counterparts. Graduate students do not existing such, and advanced degree candidates are responsible more to a professor than to the university. They are not used for teaching purposes but semetimes are employed as laboratory technicians. Those seeking a doctorate degree are called aspirants, and they sometimes teach away from the university, perhaps in a technical high school. Individual instruction is available and it is up to the student to arrange a private deal with an instructor. Professors are theoretically accessible to students by regulations of Communist Party, and in practice usually are. The influence of the area in which a university is located has a direct bearing on quality of education due to Soviet practise of much on the job training of engineering students. Universities in industrial areas profit. Entree to industry is ready as much technical advice is contracted for with universities.

Much of this question is covered above. Chemistry laboratories are unusually short on equipment, particularly in field of reagents. Also laboratory time is at the mercy of political lectures.

Written, eral and laboratory report type cases are used. Engineering and courses are usually divided into lectures, seminars, and laboratory periods. Four or five tests are given per school year on seminar work. Reports are handed in customarily on results of laboratory experiments, and occasionally a final exem is given depending on the whim of the professor. A final course examination is given at the end of the school year. No sliding scale is used for grading, and the equivalent of a managed 70 out of 100 is required to pass. Political reliability is a crutch that emables some poor students to be upgraded so as to pass. In practice, professors and instructors never severely grade pepers of political reliables for fear of dismissal.

Even the most prominent Soviet scientists devote two or three hours per week to undergraduate lectures. Such lectures are in reality university lectures, and

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all who choose may attend. Professors choose their own personal assistants. Their supervision over undergraduate research is complete. Over graduate research only the supervision of the type research that the student has personally chosen is given. Naturally, if the field is absurd a professor would do his best to deter the individual. Those students seeking a master's degree (candidate), do research for their thesis and write conclusions over one school year. No courses are required. Certain engineering theses require only one semester's work, depending on the topic. Aspirants for a doctorate degree apply for the privilege to Ministry of Education. If accepted astancaspirant; the student is assigned to a university for his research and is paid. Same aspirants spend as long as five years doing research, writing a thesis, and preparing for oral examination. A board of three to five professors conduct oral examination.

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